



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# THE AMERICAN MATHEMATICAL MONTHLY

FOUNDED BY BENJAMIN F. FINKEL

A JOURNAL FOR TEACHERS OF MATHEMATICS IN THE  
COLLEGIATE AND ADVANCED SECONDARY FIELDS

---

PUBLISHED WITH THE COÖPERATION OF  
THE UNIVERSITIES OF CHICAGO, ILLINOIS, INDIANA, IOWA,  
KANSAS, MICHIGAN, MINNESOTA, MISSOURI, NEBRASKA,  
NORTHWESTERN UNIVERSITY,  
COLORADO COLLEGE AND OBERLIN COLLEGE

---

CONTROLLED AND EDITED BY

C. H. ASHTON	W. DEW. CAIRNS	B. F. FINKEL
R. P. BAKER	FLORIAN CAJORI	E. R. HEDRICK
W. C. BRENKE	R. D. CARMICHAEL	L. C. KARPINSKI
W. H. BUSSEY	D. R. CURTISS	G. A. MILLER
	H. E. SLAUGHT	

---

**EDITORIAL COMMITTEE:** H. E. SLAUGHT, G. A. MILLER, E. R. HEDRICK

**EXECUTIVE COMMITTEE:** H. E. SLAUGHT, W. C. BRENKE, R. D. CARMICHAEL

**OFFICIAL CORRESPONDENCE** should be addressed to the MANAGING EDITOR,  
H. E. SLAUGHT, 5548 Monroe Avenue, Chicago, Ill.

---

PUBLISHED MONTHLY EXCEPT IN JULY AND AUGUST

LANCASTER, PA., AND CHICAGO

Entered at the Post Office at Lancaster, Pa., as Second Class Matter

## CONTENTS

Some Things We Wish to Know. By E. R. HEDRICK.....	105-107
History of the Logarithmic and Exponential Concepts. By FLORIAN CAJORI	107-117
Some Inverse Problems in the Calculus of Variations. By E. J. MILES	117-123
The Probability Integral deduced by Means of Developments in Finite Form. By E. L. DODD.....	123-127
Western Meetings of Mathematicians By H. E. SLAUGHT...	127-130
BOOK REVIEWS .....	130-132
PROBLEMS AND QUESTIONS .....	132-138
NEWS AND NOTES.....	138-140

---

## Smith and Gale's New Analytic Geometry

*(Published in the Summer of 1912)*

Price, \$1.50

The following institutions were included among the first  
introductions of this book

Columbia University	University of Pennsylvania
Pennsylvania State College	Johns Hopkins University
Purdue University	Northwestern University
University of Wyoming	State College of Washington
University of Oregon	

This book aims to meet the demand for a text which will provide adequate and thorough preparation for the calculus and applied mathematics. It contains many distinctive features.

*Correspondence is invited and will receive careful attention*

---

## GINN AND COMPANY Publishers

Chicago Office : 2301-2311 Prairie Avenue